

Scatter Background

Dec. 8 2000

These sums are from new MC runs that have “spike” problem resolved.

More MC data is being generated to improve statistics. I should have a factor of ~10 more by the Dec. 18.

The sum is .081 with an error of ~23% (error in # of interactions of each type and statistics of simulated events passing cuts)

		NC			CC		
		ν_e	ν_μ (p)	(np)	ν_e	ν_μ (p)	(np)
# of events		41k	50k	33k	46k	95k	94k
		wgt					
1	All EVENTS	4.0M	4.9M	1.1M	4.3M	8.9M	2.8M
2	SCATTERS Trigger, Lepton lost, Within 5mm, Pri angle < 200mr Pt < 250 GeV Mom> 1GeV Cuts in 2 <u>AND</u> kink > 10 mr,	5.9k	8.1k	1.0k	2.0k * with e lost = .25	6.6k	1.5k
3	IP to vtx < 500 μ	3.2k ₃₃	4.8k ₄₁	656 ₁₉	1.1k ₃₅	3.8k ₃₃	748 ₂₇
4	kinks per interaction: 3 1	.00080	.001	.00059	.00025	.00043	.00026
5	Correction for distribution in E800/E200/Bulk x .84	.00067	.00084	.00049	.00021	.00036	.00022
6	# of int. of this type in 203	56			61	66	20
	Background : 5*6	.040			.013	.024	.004